1.□□□□ $C:\frac{x^2}{a^2}+\frac{y^2}{b^2}=1$ □□ $A(-2,-1)$ □□ $a=2b$□

□I□□□□ C □□□□

□II□□□ $B(-4,0)$ □□□ l □□□ C □□ $M,N,$□□ MA,NA□□□□□ $x=-4$□□ P,Q□□ $\frac{|PB|}{|BQ|}$□□□

□□□□□I□ $\frac{x^2}{8}+\frac{y^2}{2}=1$ □□II□1.

□□□□(1)□□□□□□□ $\frac{x^2}{a^2}+\frac{y^2}{b^2}=1(a>b>0)$ □□□□□□□

$\begin{cases}\frac{4}{a^2}+\frac{1}{b^2}=1\\ a=2b\end{cases}$ □□□□ $\begin{cases}a^2=8\\ b^2=2\end{cases}$□

□□□□□□□ $\frac{x^2}{8}+\frac{y^2}{2}=1$.

(2)□ $M(x_1,y_1)$ □ $N(x_2,y_2)$ □□□ MN □□□□ $y=k(x+4)$ □

□□□□□ $\frac{x^2}{8}+\frac{y^2}{2}=1$ □□□□□ $x^2+4k^2(x+4)^2=8$□

□□ $(4k^2+1)x^2+32k^2x+(64k^2-8)=0$□

□□ $x_1+x_2=\frac{-32k^2}{4k^2+1}, x_1x_2=\frac{64k^2-8}{4k^2+1}$.

□□ MA □□□□□ $y+1=\frac{y_1+1}{x_1+2}(x+2)$ □

□ $x=-4$□□□ $y_P=-2\times\frac{y_1+1}{x_1+2}-1=-2\times\frac{k(x_1+4)+1}{x_1+2}-\frac{x_1+2}{x_1+2}=\frac{-(2k+1)(x_1+4)}{x_1+2}$ □

□□□□□ $y_Q=\frac{-(2k+1)(x_2+4)}{x_2+2}$.

□□□ $y_P y_Q < 0$ □□□ $\dfrac{|PB|}{|PQ|} = \left|\dfrac{y_P}{y_Q}\right|$ □□□□□

$$y_P + y_Q = -(2k+1)\left(\frac{x_1+4}{x_1+2} + \frac{x_2+4}{x_2+2}\right) = -(2k+1)\times\frac{(x_1+4)(x_2+2)+(x_2+4)(x_1+2)}{(x_1+2)(x_2+2)}$$ □

□□ $(x_1+4)(x_2+2)+(x_2+4)(x_1+2) = 2\left[x_1x_2 + 3(x_1+x_2)+8\right]$

$$=2\left[\frac{64k^2-8}{4k^2+1} + 3\times\left(\frac{-32k^2}{4k^2+1}\right)+8\right]$$

$$=2\times\frac{(64k^2-8)+3\times(-32k^2)+8(4k^2+1)}{4k^2+1} = 0$$ □

□ $y_P + y_Q = 0, y_P = -y_Q$.

□□ $\dfrac{|PB|}{|BQ|} = \left|\dfrac{y_P}{y_Q}\right| = 1$.